

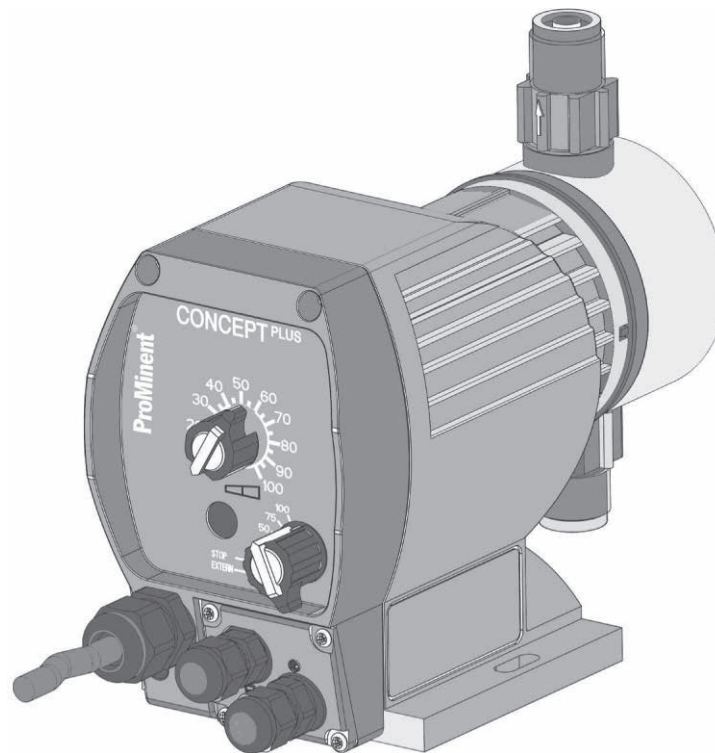
ProMinent® Concept b Solenoid Diaphragm Metering Pumps

Overview: Concept b

Ideal for basic chemical feed applications

(see [page 138](#) for spare parts and [page 151](#) for control cables)

- Capacity range of 0.19 to 4.33 GPH (0.7 to 16.4 L/h) at pressures up to 232 psi (16 bar).
- Continuous stroke length adjustment from 0-100 % (recommended 30-100 %)
- Fixed frequency settings @ 0, 25, 50, 75 and 100%.
- Low cost opens up opportunities in the most basic applications
- NP, PP and PVT liquid ends
- Integral bleed valve simplifies priming and prevents “loss of prime”
- Common applications: Cooling towers, chlorination and metal finishing
- NSF 61/50 approved liquid ends



ProMinent® Concept b Solenoid Diaphragm Metering Pumps

Capacity Data

Pump Version	Capacity at Maximum Back Pressure				Max. Stroking Rate spm	Pre-Primed Suction Lift ft. (m)	Tubing Connectors O.D. x I.D. (in.)	Shipping Weight (approx.)	
	psig	(bar)	U.S. GPH	(L/h)				mL/stroke	lbs.
1000	145	(10)	0.19	(0.7)	0.07	180	20 (6)	1/4" x 3/16"	3.97 (1.8)
1601	232	(16)	0.29	(1.1)	0.10	180	20 (6)	1/4" x 3/16"	3.97 (1.8)
1002	145	(10)	0.63	(2.4)	0.18	180	16 (5)	1/4" x 3/16"	3.97 (1.8)
1003	145	(10)	0.79	(3.0)	0.19	240	16 (5)	1/4" x 3/16"	3.97 (1.8)
0704	102	(7)	1.03	(4.0)	0.36	180	13 (4)	1/4" x 3/16"	3.97 (1.8)
0705	102	(7)	1.37	(5.2)	0.38	240	13 (4)	1/4" x 3/16"	3.97 (1.8)
0309	44	(3)	2.38	(9.0)	0.83	180	20 (6)	3/8" x 1/4"	3.97 (1.8)
0215	22	(1.5)	4.33	(16.4)	1.40	180	5 (1.5)	3/8" x 1/4"	3.97 (1.8)

(Note: Above capacities and suction lift refer to pumps tested on water at 115 VAC, 60 Hz, and an ambient temperature of 70°F (20°C). Higher specific gravity fluids will reduce suction lift. Capacities will be slightly reduced from published ratings if pumps are skid mounted)

External pulse contact retrofit available as an option (P/N 1046731)

NSF 50 certification only applies to NPB0 & NPB2 liquid ends

Materials In Contact With Chemicals

	Pump head	Valves	O-rings	Balls
PPE	Polypropylene	Polypropylene	EPDM	ceramic
PPB	Polypropylene	Polypropylene	Viton®	ceramic
NPE	Acrylic	PVC	EPDM	ceramic
NPB	Acrylic	PVC	Viton®	ceramic
PVT	PVDF	PVDF	PTFE	ceramic

Pump diaphragm with PTFE-coating.

Note: Viton® is a registered trademark of DuPont Dow Elastomers.

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Identcode Ordering System

CNPb Concept PLUS											
Version		Capacity				Version		Capacity			
1000		0.19 gph (0.7 l/h), 145 psi (10 bar)				0704		1.03 gph (4.0 l/h), 102 psi (7 bar)			
1601		0.29 gph (1.1 l/h), 232 psi (16 bar)				0705		1.37 gph (5.2 l/h), 102 psi (7 bar)			
1002		0.63 gph (2.4 l/h), 145 psi (10 bar)				0309		2.38 gph (9.0 l/h), 44 psi (3 bar)			
1003		0.79 gph (3.0 l/h), 145 psi (10 bar)				0215		4.33 gph (16.4 l/h), 22 psi (1.5 bar)			
Liquid end material:											
PP		Polypropylene									
NP		Acrylic/PVC									
PV		PVDF									
O-rings:											
B		Viton® seals									
E		EPDM seals									
T		PTFE seals									
Liquid end version:											
0		Non-bleed version, no valve spring									
1		Non-bleed version, with valve spring									
2		With bleed valve, no valve spring (except 0704 models)									
3		With bleed valve, with valve spring									
7		Auto-degassing									
Connection:											
M		1/4" x 3/16"									
N		3/8" x 1/4"									
Logo:											
0		With ProMinent logo									
Power Supply:											
A		1 ph 230 V 50/60 Hz (Euro plug)									
D		1 ph 115 V 50/60 Hz (US plug)									
4		1 ph 230 V 50/60 Hz (US plug) (consult factory for pricing)									
Control Option:											
0		Standard (w/o external control)									
B		With external and level input retrofit kit, fitted, without level switch									
Accessories:											
1		With accessories (foot valve, injection valve, tubing)									
Control Variant:											
0		Standard									
Approval:											
01		CE									
07		MET									
11		MET + NSF 61									
CNPb	1000	PP	B	0	M	0	A	0	1	0	01

product overview

solenoid-driven metering pumps

motor-driven metering pumps

pump spare parts & accessories

DULCOMETER instrumentation

DULCOTEST sensors

polymer blending & dry feed solutions

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Dimensional Drawings

Dimensions in inches (mm).

Ranges given, actual dimension dependent on liquid end material.

